The Blueprint for Success: Mastering the BIM Execution Plan (BEP)

A step-by-step guide for Nevada AEC professionals ready to lead with structured, collaborative, and data-driven BIM execution.

The Reality of Modern Construction

Without a BEP

Inconsistent models, chaotic workflows, duplicated effort, and costly rework become the norm – not the exception.

The BEP as Your North Star

A well-crafted BEP aligns all stakeholders around shared goals, defines clear responsibilities, and builds accountability into every phase of the project – from concept through closeout.

CHAPTER 1

Defining the Vision

Every successful BIM project begins with a clear, shared understanding of purpose, scope, and destination.

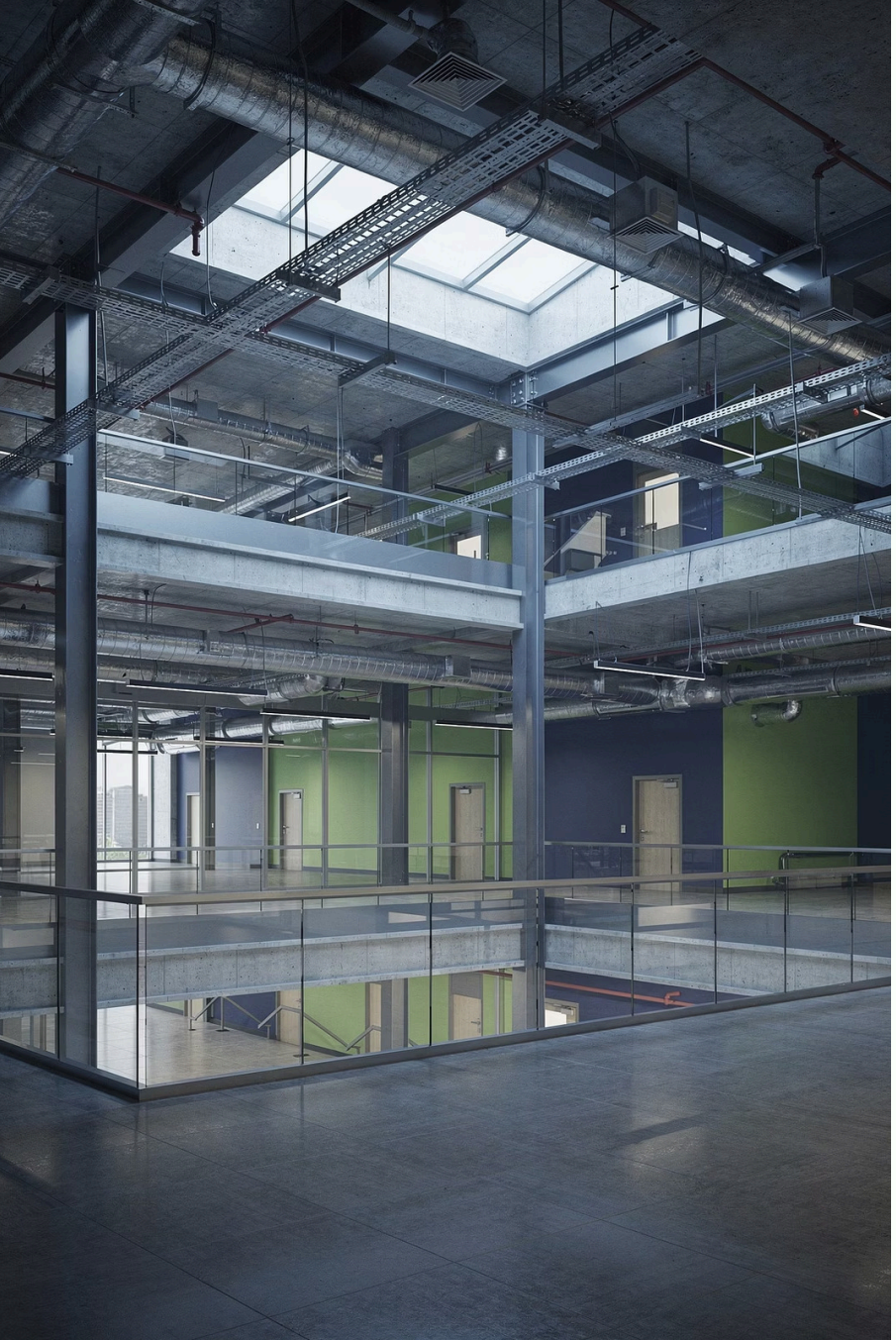
Setting Project Goals

Beyond the Model

The BEP must answer a fundamental question: **what is this model for?** Define whether the deliverable supports renovation, facility management, permit submission, or owner handover – each demands a different BIM strategy.

Aligning with Nevada Standards

Leverage national BIM guidelines (**NBIMS**-US, LOD Spec) alongside Nevada-specific public agency requirements to streamline approvals and reduce submission cycles on state and municipal projects.



Clarity in Complexity

A well-structured BEP transforms dense, multi-discipline models into coordinated, navigable assets that every stakeholder can trust.

CHAPTER 2

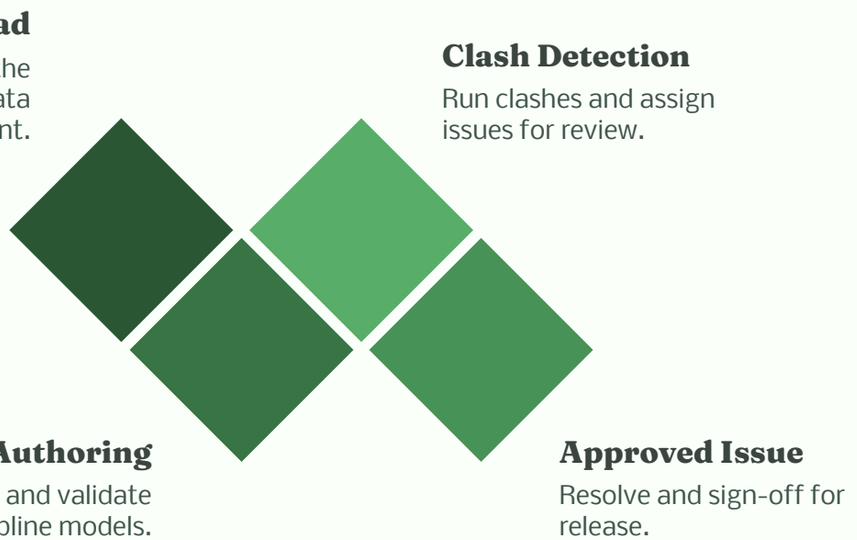
The Architecture of Collaboration

Successful BIM execution is not a solo act. It is a structured, intentional system of people working in concert.

Roles and Responsibilities

1	2	3
BIM Manager	**Lead Modelers**	**BIM Coordinators**
Owns the BEP, enforces standards, manages the Common Data Environment, and serves as the primary point of coordination across all disciplines.	Author discipline-specific models to agreed LOD requirements. Responsible for internal quality checks before issuing to the federated model.	Run clash detection, facilitate coordination meetings, log issues, and track resolutions to ensure zero unresolved conflicts at milestone gates.

Workflow Mapping


CDE Upload
Publish files to the Common Data Environment.
Clash Detection
Run clashes and assign issues for review.
Model Authoring
Create and validate discipline models.
Approved Issue
Resolve and sign-off for release.

A clear data exchange protocol ensures every team **member knows exactly how, when, and where information moves through the project lifecycle.**

Standardizing the Process

Naming Conventions

Consistent file and element naming eliminates ambiguity and **supports automated sorting in the CDE**.

Shared Parameters

Standardized parameters ensure data travels correctly across disciplines and into downstream analysis tools.

Family Standards

Approved content libraries reduce model bloat and guarantee consistent geometry and data quality.

CHAPTER 3

Execution and Evolution

A BEP is not a document you write once and file away. It is a living plan that adapts with your project.

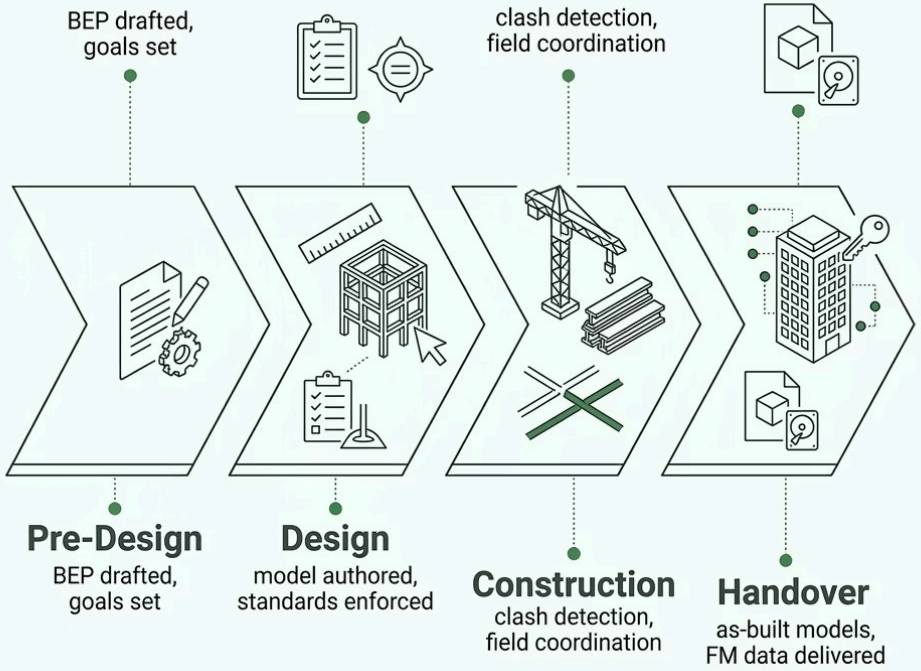
The Iterative Process

A Living Document

The BEP evolves through every design phase – from **Schematic Design through Construction Documents** – and continues to be updated at each major construction milestone to reflect scope changes and emerging requirements.

Quality Control Checkpoints

Establish formal model review gates at SD, DD, CD, and construction phases. **Each gate verifies LOD compliance, data completeness, and clash-free coordination before the project advances.**



From Digital Model to Physical Reality

The BEP bridges the gap between design intent and built outcome – ensuring what is modeled is what gets built.

Your Call to Action: Build Better

Stop Guessing, Start Planning

Implement a BEP on your next Nevada project to reduce coordination risk, cut rework costs, and deliver measurable ROI to owners and stakeholders.

Lead the Digital Transformation

The future of Nevada AEC is digital. Position your firm at the forefront by embedding structured, collaborative BIM execution into every project delivery.

> The firms that define **how BIM is executed today will shape how Nevada's built environme**nt looks tomorrow.